FIG. 1A

```
                                                  M   Q   R   L   G   A   T   L   L   C     10
  GGCACGAGGGGGCGGCGGCTGCGGGCGCAGAGCGGAG ATG CAG CGG CTT GGG GCC ACC CTG CTG TGC     67

  L   L   L   A   A   A   V   P   T   A   P   A   P   A   P   T   A   T   S   A     30
CTG CTG CTG GCG GCG GCG GTC CCC ACG GCC CCC GCG CCC GCT CCG ACG GCG ACC TCG GCT    127

  P   V   K   P   G   P   A   L   S   Y   P   Q   E   E   A   T   L   N   E   M     50
CCA GTC AAG CCC GGC CCG GCT CTC AGC TAC CCG CAG GAG GAG GCC ACC CTC AAT GAG ATG    187

  F   R   E   V   E   E   L   M   E   D   T   Q   H   K   L   R   S   A   V   E     70
TTC CGC GAG GTT GAG GAA CTG ATG GAG GAC ACG CAG CAC AAA TTG CGC AGC GCG GTG GAA    247

  E   M   E   A   E   E   A   A   A   K   A   S   S   E   V   N   L   A   N   L     90
GAG ATG GAG GCA GAA GAA GCT GCT GCT AAA GCA TCA TCA GAA GTG AAC CTG GCA AAC TTA    307

  P   P   S   Y   H   N   E   T   N   T   D   T   K   V   G   N   N   T   I   H    110
CCT CCC AGC TAT CAC AAT GAG ACC AAC ACA GAC ACG AAG GTT GGA AAT AAT ACC ATC CAT    367

  V   H   R   E   I   H   K   I   T   N   N   Q   T   G   Q   M   V   F   S   E    130
GTG CAC CGA GAA ATT CAC AAG ATA ACC AAC AAC CAG ACT GGA CAA ATG GTC TTT TCA GAG    427

  T   V   I   T   S   V   G   D   E   E   G   R   R   S   H   E   C   I   I   D    150
ACA GTT ATC ACA TCT GTG GGA GAC GAA GAA GGC AGA AGG AGC CAC GAG TGC ATC ATC GAC    487

  E   D   C   G   P   S   M   Y   C   Q   F   A   S   F   Q   Y   T   C   Q   P    170
GAG GAC TGT GGG CCC AGC ATG TAC TGC CAG TTT GCC AGC TTC CAG TAC ACC TGC CAG CCA    547

  C   R   G   Q   R   M   L   C   T   R   D   S   E   C   C   G   D   Q   L   C    190
TGC CGG GGC CAG AGG ATG CTC TGC ACC CGG GAC AGT GAG TGC TGT GGA GAC CAG CTG TGT    607
```

App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy

FIG. 1B

```
 V   W   G   H   C   T   K   M   A   T   R   G   S   N   G   T   I   C   D   N     210
GTC TGG GGT CAC TGC ACC AAA ATG GCC ACC AGG GGC AGC AAT GGG ACC ATC TGT GAC AAC     667

 Q   R   D   C   Q   P   G   L   C   C   A   F   Q   R   G   L   L   F   P   V     230
CAG AGG GAC TGC CAG CCG GGG CTG TGC TGT GCC TTC CAG AGA GGC CTG CTG TTC CCT GTG     727

 C   T   P   L   P   V   E   G   E   L   C   H   D   P   A   S   R   L   L   D     250
TGC ACA CCC CTG CCC GTG GAG GGC GAG CTT TGC CAT GAC CCC GCC AGC CGG CTT CTG GAC     787

 L   I   T   W   E   L   E   P   D   G   A   L   D   R   C   P   C   A   S   G     270
CTC ATC ACC TGG GAG CTA GAG CCT GAT GGA GCC TTG GAC CGA TGC CCT TGT GCC AGT GGC     847

 L   L   C   Q   P   H   S   H   S   L   V   Y   V   C   K   P   T   F   V   G     290
CTC CTC TGC CAG CCC CAC AGC CAC AGC CTG GTG TAT GTG TGC AAG CCG ACC TTC GTG GGG     907

 S   R   D   Q   D   G   E   I   L   L   P   R   E   V   P   D   E   Y   E   V     310
AGC CGT GAC CAA GAT GGG GAG ATC CTG CTG CCC AGA GAG GTC CCC GAT GAG TAT GAA GTT     967

 G   S   F   M   E   E   V   R   Q   E   L   E   D   L   E   R   S   L   T   E     330
GGC AGC TTC ATG GAG GAG GTG CGC CAG GAG CTG GAG GAC CTG GAG AGG AGC CTG ACT GAA    1027

 E   M   A   L   L   E   P   A   A   A   A   A   A   L   L   G   R   E   E   I     350
GAG ATG GCG CTG AGG GAG CCT GCG GCT GCC GCC GCT GCA CTG CTG GGA AGG GAA GAG ATT    1087

 *                                                                                 351
TAG                                                                              1090
```

App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy

FIG. 1C

```
ATCTGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTTCCCCANGTGTGTGCTTTAAGCGTGGGCTG  1169

ACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTTCCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAG  1248

CTCCCCCAGGCTGTTCTCCAGGCTTCACAGTCTGGTGCTTGGGAGAGTCAGGCAGGGTTAAACTGCAGGAGCAGTTTGC  1327

CACCCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATGGCTTTGATAATTG  1406

TTTGAGGGGAGGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTT  1485

TGCAAACATCAACCTGGCAAAAATGCAACAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCT  1564

TCAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTTGCTCAGCTCCTAC  1643

CTCTGTGCCAGGGCAGCATTTTCATATCCAAGATCAATTCCCTCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTTCTC  1722

CTCGTCCATCAGGGATTTCAGAGGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACACAGCTAGTGAAGACCAGAGCAG  1801

TTTCATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCAGCCTTGGTGCCACCAAAAGTGCTCCCC  1880

AAAAGGAAGGAGAATGGGATTTTTCTTTTGAGGCATGCACATCTGGAATTAAGGTCAAACTAATTCTCACATCCCTCTA  1959

AAAGTAAACTACTGTTAGGAACAGCAGTGTTCTCACAGTGTGGGGCAGCCGTCCTTCTAATGAAGACAATGATATTGAC  2038

ACTGTCCCTCTTTGGCAGTTGCATTAGTAACTTTGAAAGGTATATGACTGAGCGTAGCATACAGGTTAACCTGCAGAAA  2117

CAGTACTTAGGTAATTGTAGGGCGAGGATTATAAATGAAATTTGCAAAATCACTTAGCAGCAACTGAAGACAATTATCA  2196
```

FIG. 1D

```
ACCACGTGGAGAAAATCAAACCGAGCAGGGCTGTGTGAAACATGGTTGTAATATGCGACTGCGAACACTGAACTCTACG  2275

CCACTCCACAAATGATGTTTTCAGGTGTCATGGACTGTTGCCACCATGTATTCATCCAGAGTTCTTAAAGTTTAAAGTT  2354

GCACATGATTGTATAAGCATGCTTTCTTTGAGTTTTAAATTATGTATAAACATAAGTTGCATTTAGAAATCAAGCATAA  2433

ATCACTTCAACTGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                    2479
```

FIG. 2A

```
GAATTCGGCACGAGAGACGACGTGCTGAGCTGCCAGCTTAGTGGAAGCTCTGCTCTGGGTGGAGAGCAGCCTCGCTTTG   79

                                                    M   V   A   A   V   L   L   G      8
GTGACGCACAGTGCTGGGACCCTCCAGGAGCCCCGGGATTGAAGG ATG GTG GCG GCC GTC CTG CTG GGG    148

 L   S   W   L   C   S   P   L   G   A   L   V   L   D   F   N   N   I   R   S     28
CTG AGC TGG CTC TGC TCT CCC CTG GGA GCT CTG GTC CTG GAC TTC AAC AAC ATC AGG AGC   208

 S   A   D   L   H   G   A   R   K   G   S   Q   C   L   S   D   T   D   C   N     48
TCT GCT GAC CTG CAT GGG GCC CGG AAG GGC TCA CAG TGC CTG TCT GAC ACG GAC TGC AAT   268

 T   R   K   F   C   L   Q   P   R   D   E   K   P   F   C   A   T   C   R   G     68
ACC AGA AAG TTC TGC CTC CAG CCC CGC GAT GAG AAG CCG TTC TGT GCT ACA TGT CGT GGG   328

 L   R   R   R   C   Q   R   D   A   M   C   C   P   G   T   L   C   V   N   D     88
TTG CGG AGG AGG TGC CAG CGA GAT GCC ATG TGC TGC CCT GGG ACA CTC TGT GTG AAC GAT   388

 V   C   T   T   M   E   D   A   T   P   I   L   E   R   Q   L   D   E   Q   D    108
GTT TGT ACT ACG ATG GAA GAT GCA ACC CCA ATA TTA GAA AGG CAG CTT GAT GAG CAA GAT   448

 G   T   H   A   E   G   T   T   G   H   P   V   Q   E   N   Q   P   K   R   K    128
GGC ACA CAT GCA GAA GGA ACA ACT GGG CAC CCA GTC CAG GAA AAC CAA CCC AAA AGG AAG   508

 P   S   I   K   K   S   Q   G   R   K   G   Q   E   G   E   S   C   L   R   T    148
CCA AGT ATT AAG AAA TCA CAA GGC AGG AAG GGA CAA GAG GGA GAA AGT TGT CTG AGA ACT   568
```

FIG. 2B

```
 F   D   C   G   P   G   L   C   C   A   R   H   F   W   T   K   I   C   K   P   168
TTT GAC TGT GGC CCT GGA CTT TGC TGT GCT CGT CAT TTT TGG ACG AAA ATT TGT AAG CCA   628

 V   L   L   E   G   Q   V   C   S   R   R   G   H   K   D   T   A   Q   A   P   188
GTC CTT TTG GAG GGA CAG GTC TGC TCC AGA AGA GGG CAT AAA GAC ACT GCT CAA GCT CCA   688

 E   I   F   Q   R   C   D   C   G   P   G   L   L   C   R   S   Q   L   T   S   208
GAA ATC TTC CAG CGT TGC GAC TGT GGC CCT GGA CTA CTG TGT CGA AGC CAA TTG ACC AGC   748

 N   R   Q   H   A   R   L   R   V   C   Q   K   I   E   K   L   *               225
AAT CGG CAG CAT GCT CGA TTA AGA GTA TGC CAA AAA ATA GAA AAG CTA TAA               799

ATATTTCAAAATAAAGAAGAATCCACATTGCAAAAAAAAAAAAAAAAAA                                848
```

App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy

FIG. 3A

```
CCGGACGCGTGGGCGGCACGGTTTCGTGGGGACCCAGGCTTGCAAAGTGACGGTCATTTTCTCTTTCTTTCTCCCTCTT    79

                  M   M   A   L   G   A   A   G   A   T   R   V   F   V   A   M      16
GAGTCCTTCTGAG ATG ATG GCT CTG GGC GCA GCG GGA GCT ACC CGG GTC TTT GTC GCG ATG     140

 V   A   A   A   L   G   G   H   P   L   L   G   V   S   A   T   L   N   S   V    36
GTA GCG GCG GCT CTC GGC GGC CAC CCT CTG CTG GGA GTG AGC GCC ACC TTG AAC TCG GTT   200

 L   N   S   N   A   I   K   N   L   P   P   P   L   G   G   A   A   G   H   P    56
CTC AAT TCC AAC GCT ATC AAG AAC CTG CCC CCA CCG CTG GGC GGC GCT GCG GGG CAC CCA   260


 G   S   A   V   S   A   A   P   G   I   L   Y   P   G   G   N   K   Y   Q   T    76
GGC TCT GCA GTC AGC GCC GCG CCG GGA ATC CTG TAC CCG GGC GGG AAT AAG TAC CAG ACC   320

 I   D   N   Y   Q   P   Y   P   C   A   E   D   E   E   C   G   T   D   E   Y    96
ATT GAC AAC TAC CAG CCG TAC CCG TGC GCA GAG GAC GAG GAG TGC GGC ACT GAT GAG TAC   380

 C   A   S   P   T   R   G   G   D   A   G   V   Q   I   C   L   A   C   R   K   116
TGC GCT AGT CCC ACC CGC GGA GGG GAC GCA GGC GTG CAA ATC TGT CTC GCC TGC AGG AAG   440

 R   R   K   R   C   M   R   H   A   M   C   C   P   G   N   Y   C   K   N   G   136
CGC CGA AAA CGC TGC ATG CGT CAC GCT ATG TGC TGC CCC GGG AAT TAC TGC AAA AAT GGA   500

 I   C   V   S   S   D   Q   N   H   F   R   G   E   I   E   E   T   I   T   E   156
ATA TGC GTG TCT TCT GAT CAA AAT CAT TTC CGA GGA GAA ATT GAG GAA ACC ATC ACT GAA   560
```

App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy

FIG. 3B

```
 S   F   G   N   D   H   S   T   L   D   G   Y   S   R   R   T   T   L   S   S   176
AGC TTT GGT AAT GAT CAT AGC ACC TTG GAT GGG TAT TCC AGA AGA ACC ACC TTG TCT TCA   620

 K   M   Y   H   T   K   G   Q   E   G   S   V   C   L   R   S   S   D   C   A   196
AAA ATG TAT CAC ACC AAA GGA CAA GAA GGT TCT GTT TGT CTC CGG TCA TCA GAC TGT GCC   680

 S   G   L   C   C   A   R   H   F   W   S   K   I   C   K   P   V   L   K   E   216
TCA GGA TTG TGT TGT GCT AGA CAC TTC TGG TCC AAG ATC TGT AAA CCT GTC CTG AAA GAA   740

 G   Q   V   C   T   K   H   R   R   K   G   S   H   G   L   E   I   F   Q   R   236
GGT CAA GTG TGT ACC AAG CAT AGG AGA AAA GGC TCT CAT GGA CTA GAA ATA TTC CAG CGT   800

 C   Y   C   G   E   G   L   S   C   R   I   Q   K   D   H   H   Q   A   S   N   256
TGT TAC TGT GGA GAA GGT CTG TCT TGC CGG ATA CAG AAA GAT CAC CAT CAA GCC AGT AAT   860

 S   S   R   L   H   T   C   Q   R   H   *                                       267
TCT TCT AGG CTT CAC ACT TGT CAG AGA CAC TAA                                     893

ACCAGCTATCCAAAATGCAGTGAACTCCTTTTATATAATAGATGCTATGAAAACCTTTTATGACCTTCATCAACTCAAT  972
CCTAAGGATATACAAGTTCTGTGGTTTCAGTTAAGCATTCCAATAACACCTTCCAAAAACCTGGAGTGTAAGAGCTTTG 1051
TTTCTTTATGGAACTCCCCTGTGATTGCAGTAAATTACTGTATTGTAAATTCTCAGTGTGGCACTTACCTGTAAATGCA 1130
ATGAAACTTTTAATTATTTTTCTAAAGGTGCTGCACTGCCTATTTTTCCTCTTGTTATGTAAATTTTTGTACACATTGA 1209
TTGTTATCTTGACTGACAAATATTCTATATTGAACTGAAGTAAATCATTTCAGCTTATAGTTCTTAAAAGCATAACCCT 1288
TTACCCCATTTNATTCTAGAGTCNAGAACGCAAGGATCTCTTGGAATGACAAATGATAGGTACCTAAAATGTAACATGA 1367
AAATACTAGCTTATTTTCTGAAATGTACTATCTTAATGCTTAAATTATATTTCCCTTTAGGCTGTGATAGTTTTTGAAA 1446
TAAAATTTAACATTTAATATCATGAAATGKTATAAGTAGACATAAAAAAAAAAAAAAAAAAAAAGGGCGGCCGCTAGA 1525
CTAG                                                                            1529
```

FIG. 4

```
 E   F   G   T   R   V   G   R   Y   C   H   S   P   H   Q   G   S   S   A   C   20
GAA TTC GGC ACG AGG GTT GGG AGG TAT TGC CAC AGT CCC CAC CAA GGA TCA TCG GCC TGC  60

 M   V   C   R   R   K   K   K   R   C   H   R   D   G   M   C   C   P   S   T   40
ATG GTG TGT CGG AGA AAA AAG AAG CGC TGC CAC CGA GAT GGC ATG TGC TGC CCC AGT ACC 120

 R   C   N   N   G   I   C   I   P   V   T   E   S   I   L   T   P   H   I   P   60
CGC TGC AAT AAT GGC ATC TGT ATC CCA GTT ACT GAA AGC ATC TTA ACC CCT CAC ATC CCG 180

 A   L   D   G   T   R   H   R   D   R   N   H   G   H   Y   S   N   H   D   L   80
GCT CTG GAT GGT ACT CGG CAC AGA GAT CGA AAC CAC GGT CAT TAC TCA AAC CAT GAC TTG 240

 G   W   Q   N   L   G   R   P   H   T   K   M   S   H   I   K   G   H   E   G  100
GGA TGG CAG AAT CTA GGA AGA CCA CAC ACT AAG ATG TCA CAT ATA AAA GGG CAT GAA GGA 300

 D   P   C   L   R   S   S   D   C   I   E   G   F   C   C   A   R   H   F   W  120
GAC CCC TGC CTA CGA TCA TCA GAC TGC ATT GAA GGG TTT TGC TGT GCT CGT CAT TTC TGG 360

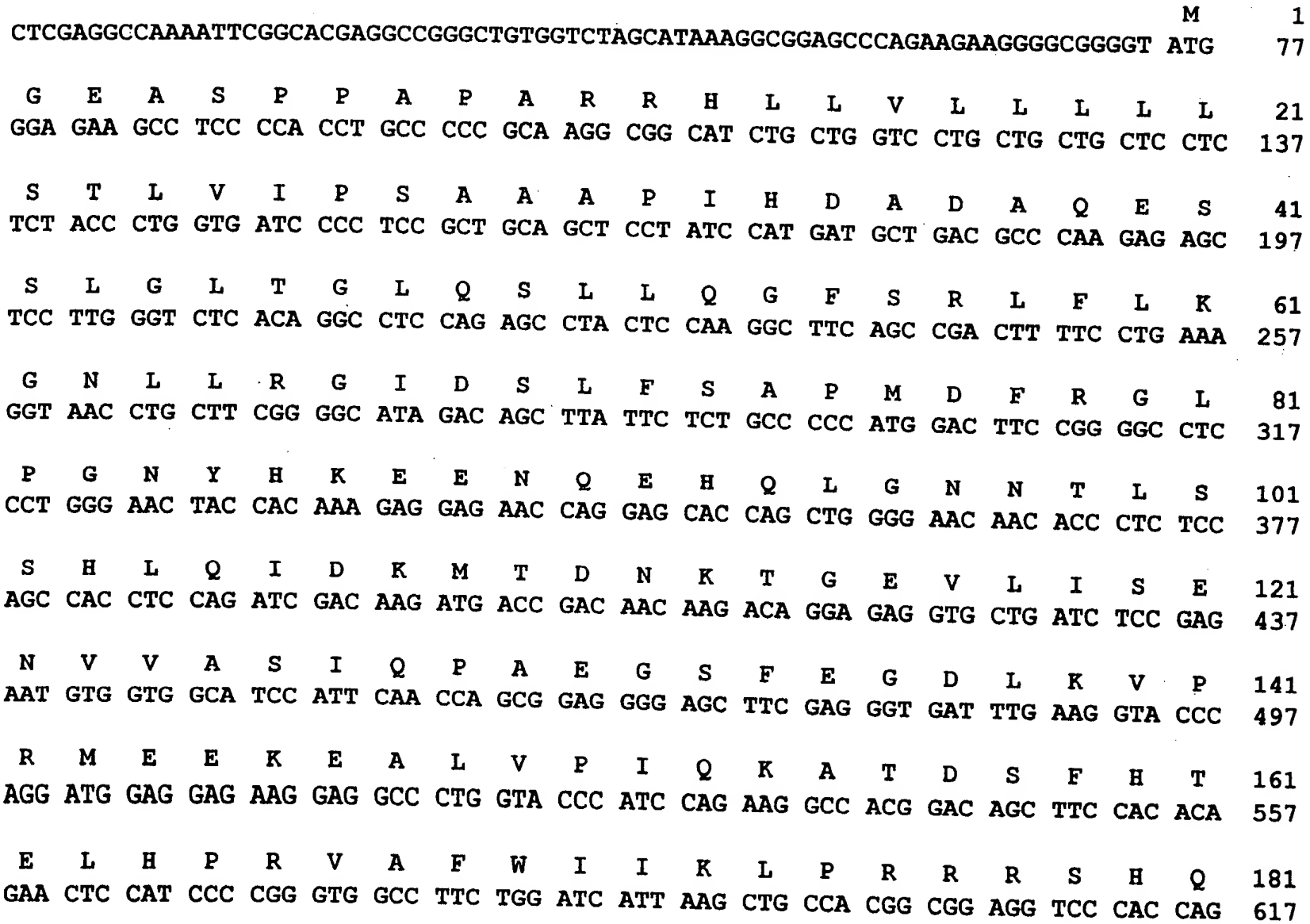
 T   K   I   C   K   P   V   L   H   Q   G   E   V   C   T   K   Q   R   K   K  140
ACC AAA ATC TGC AAA CCA GTG CTC CAT CAG GGG GAA GTC TGT ACC AAA CAA CGC AAG AAG 420

 G   S   H   G   L   E   I   F   Q   R   C   D   C   A   K   G   L   S   C   K  160
GGT TCT CAT GGG CTG GAA ATT TTC CAG CGT TGC GAC TGT GCG AAG GGC CTG TCT TGC AAA 480

 V   W   K   D   A   T   Y   S   S   K   A   R   L   H   V   C   Q   K   I   *  180
GTA TGG AAA GAT GCC ACC TAC TCC TCC AAA GCC AGA CTC CAT GTG TGT CAG AAA ATT TGA 540

TCACCATTGAGGAACATCATCAATTGCAGACTGTGAAGTTGTGTATTTAATGCATTATAGCATGGTGGAAAATAAGGTT 619
CAGATGCAGAAGAATGGCTAAAATAAGAAACGTGATAAGAATATAGATGATCACAAAAAAAAAAAAAAAAAAGATGCGG 698
CCGC                                                                             702
```

FIG. 5A



App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy

FIG. 5B

```
 D   A   L   E   G   G   H   W   L   S   E   K   R   H   R   L   Q   A   I   R   201
GAT GCC CTG GAG GGC GGC CAC TGG CTC AGC GAG AAG CGA CAC CGC CTG CAG GCC ATC CGG   677

 D   G   L   R   K   G   T   H   K   D   V   L   E   E   G   T   E   S   S   S   221
GAT GGA CTC CGC AAG GGG ACC CAC AAG GAC GTC CTA GAA GAG GGG ACC GAG AGC TCC TCC   737

 H   S   R   L   S   P   R   K   T   H   L   L   Y   I   L   R   P   S   R   Q   241
CAC TCC AGG CTG TCC CCC CGA AAG ACC CAC TTA CTG TAC ATC CTC AGG CCC TCT CGG CAG   797

 L   *                                                                           243
CTG TAG                                                                         803

GGGTGGGGACCGGGGAGCACCTGCCTGTAGCCCCCATCAGACCCTGCCCCAAGCACCATATGGAAATAAAGTTCTTTCT  882

TACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAATTGGCGGCCGC                                  928
```

App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy

FIG. 6A

```
crsp-2h     ....................................
crsp-3h     ....................................
crsp-4h     ....................................
tango59     MQRLGATLLCLLLAAAVPTAPAPAPTATSAPVKPGPALSY
Consensus                                        40

crsp-2h     ....................................
crsp-3h     ....................MMALGAAGATRVFVAMVA
crsp-4h     ....................................
tango59     PQEEATLNEMFREVEELMEDTQHKLRSAVEEMEAEEAAAK
Consensus                             a        a 80

crsp-2h     ........................MVAAVLLGLSWLCS
crsp-3h     AALGGHPLLGVSATLNSVLNSNAIKNLPPPLGGAAGHPGS
crsp-4h     ....................................
tango59     ASSEVNLANLPPSYHNETNTDTNVGNNTIHVHREIHKITN
Consensus   a             n         n    v       s 120

                                        *     *    *
crsp-2h     PLGALVLDFNNIRSSADLHGARKGSQCLSDTDCNTRKFCL
crsp-3h     AVSAAPGILYPGGNKYQTIDNYQPYPCAEDEECGTDEYCA
crsp-4h     ..........................EFGTRVGRYCH
tango59     NQTGQMVFSETVITSVGDEEGRRSHECIIDEDCGPSMYCQ
Consensus      a          s      r    C  DedCgt  YC  160

                      *  *       *      **    *    *
crsp-2h     QPRDEKPF....CATCRGLRRRCQRDAMCCPGTLCVNDVC
crsp-3h     SPTRGGDAGVQICLACRKRRKRCMRHAMCCPGNYCKNGIC
crsp-4h     SPHQGSSA....CMVCRRKKKRCHRDGMCCPSTRCNNGIC
tango59     FASFQYT.....CQPCRGQRMLCTRDSECCGDQLCVWGHC
Consensus   sP  g  a    C  CRg RkRC RDaMCCPgtlCvNGiC 200

crsp-2h     TTMEDATPILERQLDEQDGTHAEGTTGHPVQENQ...PKR
crsp-3h     VSSDQN..HFRGEIXETI.TESFGNDHSTLD....GYSRR
crsp-4h     IPVTES..ILTPHIPALDGTRHRDRNHGHYSNHDLGWQNL
tango59     TKM.....................................
Consensus   t m     il   i e dgT   g  h        g   r 240

                          *     *    **
crsp-2h     KPSIKKSQGRKGQEGESCLRTFDCGPGLCCARHFWTK..I
crsp-3h     TTLSSKMYHTKGQEGSVCLRSSDCASGLCCARHFWSK..I
crsp-4h     GRPHTKMSHIKGHEGDPCLRSSDCIEGFCCARHFWTK..I
tango59     ........ATRGSNGTICDNQRDCQPGLCCAFQRGLLFPV
Consensus        Km htKGqEG  CLRssDC pGLCCARHFWtK  I 280
```

FIG. 6B

```
                 *           *                                  * *
crsp-2h     CKPVLLEGQVCSRRGHKDT......AQAPEIFQRCDCGPG
crsp-3h     CKPVLKEGQVCTKHRRKG.......SHGLEIFQRCYCGEG
crsp-4h     CKPVLHQGEVCTKQRKKG.......SHGLEIFQRCDCAKG
tango59     CTPLPVEGELCHDPASRLLDLITWELEPDGALDRCPCASG
Consensus   CKPVL EGqVCtk r Kg       shglEIFQRCdCa G  320

              *                     *
crsp-2h     LLCRSQLTSNR..QHARLRVCQKIEKL.............
crsp-3h     LSCRIQKDHHQASNSSRLHTCQRH.................
crsp-4h     LSCKVWKD.ATYSSKARLHVCQKI.................
tango59     LLCQPHSHSL.......VYVCKPTFVGSRDQDGEILLPRE
Consensus   LsCr qkds   s  aRLhVCQki                 360

crsp-2h     ........................................
crsp-3h     ........................................
crsp-4h     ........................................
tango59     VPDEYEVGSFMEEVRQELEDLERSLTEEMALREPAAAAAA
Consensus                                           400

crsp-2h     .......
crsp-3h     .......
crsp-4h     .......
tango59     LLGREEI
Consensus          406
```

FIG. 8A

```
FGTCGACCCACGCGTCCGCTGTGGCAGCCCAGCTACCGGTCGTGACCAGATCCAGCTTGCAGCTCAGCTTTGTTCATTC   79

                                    M   Q   R   L   G   G   I   L   L   C   T   L     12
GAATTGGGCGGCGGCCAGCGCGGAACAAAC ATG CAG CGG CTC GGG GGT ATT TTG CTG TGT ACA CTG     145

 L   A   A   A   V   P   T   A   P   A   P   S   P   T   V   T   W   T   P   A     32
CTG GCG GCG GCG GTC CCC ACT GCT CCT GCT CCT TCC CCG ACG GTC ACT TGG ACT CCG GCG     205

 E   P   G   P   A   L   N   Y   P   Q   E   E   A   T   L   N   E   M   F   R     52
GAG CCG GGC CCA GCT CTC AAC TAC CCT CAG GAG GAA GCT ACG CTC AAT GAG ATG TTT CGA     265

 E   V   E   E   L   M   E   D   T   Q   H   K   L   R   S   A   V   E   E   M     72
GAG GTG GAG GAG CTG ATG GAA GAC ACT CAG CAC AAA CTG CGC AGT GCC GTG GAG GAG ATG     325

 E   A   E   E   A   A   A   K   T   S   S   E   V   N   L   A   S   L   P   P     92
GAG GCG GAA GAA GCA GCT GCT AAA ACG TCC TCT GAG GTG AAC CTG GCA AGC TTA CCT CCC     385

 N   Y   H   N   E   T   S   T   E   T   R   V   G   N   N   T   V   H   V   H    112
AAC TAT CAC AAT GAG ACC AGC ACG GAG ACC AGG GTG GGA AAT AAC ACA GTC CAT GTG CAC     445

 Q   E   V   H   K   I   T   N   N   Q   S   G   Q   V   V   F   S   E   T   V    132
CAG GAA GTT CAC AAG ATA ACC AAC AAC CAG AGT GGA CAG GTG GTC TTT TCT GAG ACA GTC     505

 I   T   S   V   G   D   E   E   G   K   R   S   H   E   C   I   I   D   E   D    152
ATT ACA TCT GTA GGG GAT GAA GAA GGC AAG AGG AGC CAT GAA TGT ATC ATT GAT GAA GAC     565

 C   G   P   T   R   Y   C   Q   F   S   S   F   K   Y   T   C   Q   P   C   R    172
TGT GGG CCC ACC AGG TAC TGC CAG TTC TCC AGC TTC AAG TAC ACC TGC CAG CCA TGC CGG     625
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FIG. 8B

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 D   Q   Q   M   L   C   T   R   D   S   E   C   C   G   D   Q   L   C   A   W     192
GAC CAG CAG ATG CTA TGC ACC CGA GAC AGT GAG TGC TGT GGA GAC CAG CTG TGT GCC TGG     685

 G   H   C   T   Q   K   A   T   K   G   G   N   G   T   I   C   D   N   Q   R     212
GGT CAC TGC ACC CAA AAG GCC ACC AAA GGT GGC AAT GGG ACC ATC TGT GAC AAC CAG AGG     745

 D   C   Q   P   G   L   C   C   A   F   Q   R   G   L   L   F   P   V   C   T     232
GAT TGC CAG CCT GGC CTG TGT TGT GCC TTC CAA AGA GGC CTG CTG TTC CCC GTG TGC ACA     805

 P   L   P   V   E   G   E   L   C   H   D   P   T   S   Q   L   L   D   L   I     252
CCC CTG CCC GTG GAG GGA GAG CTC TGC CAT GAC CCC ACC AGC CAG CTG CTG GAT CTC ATC     865

 T   W   E   L   E   P   E   G   A   L   D   R   C   P   C   A   S   G   L   L     272
ACC TGG GAA CTG GAG CCT GAA GGA GCT TTG GAC CGA TGC CCC TGC GCC AGT GGC CTC CTA     925

 C   Q   P   H   S   H   S   L   V   Y   M   C   K   P   A   F   V   G   S   H     292
TGC CAG CCA CAC AGC CAC AGT CTG GTG TAC ATG TGC AAG CCA GCC TTC GTG GGC AGC CAT     985

 D   H   S   E   E   S   Q   L   P   R   E   A   P   D   E   Y   E   D   V   G     312
GAC CAC AGT GAG GAG AGC CAG CTG CCC AGG GAG GCC CCG GAT GAG TAC GAA GAT GTT GGC    1045

 F   I   G   E   V   R   Q   E   L   E   D   L   E   R   S   L   A   Q   E   M     332
TTC ATA GGG GAA GTG CGC CAG GAG CTG GAA GAC CTG GAG CGG AGC CTA GCC CAG GAG ATG    1105
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FIG. 8C

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 A   F   E   G   P   A   P   V   E   S   L   G   G   E   E   E   I   *          350
GCA TTT GAG GGG CCT GCC CCT GTG GAG TCA CTA GGC GGA GAG GAG GAG ATT TAG        1159

GCCCAGACCCAGCTGAGTCACTGGTAGATGTGCAATAGAAATGGCTAATTTATTTTCCCAGGAGTGTCCCCAAGTGTGG  1238

AATGGCCGCAGCTCCTTCCCAGTAGCTTTTCCTCTGGCTTGACAAGGTACAGTGCAGTACATTTCTTCCAGCCGCCCTG  1317

CTTCTCTGACTTGGGAAAGACAGGCATGGCGGGTAAGGGCAGCGGTGAGTCGTCCCTCGCTGTTGCTAGAAACGCTGTC  1396

TTGTTCTTCATGGATGGAAGATTTGTTTGAAGGGAGAGGATGGGAAGGGGTGAAGTCTGCTCATGATGGATTTGGGGGA  1475

TACAGGGAGGAGGATGCCTGCCTTGCAGACGTGGACTTGGCAAAATGTAACCTTTGCTTTTGTCTTGCGCCGCTCCCAT  1554

GGGCTGAGGCAGTGGCTACACAAGAGCTATGCTGCTCTGTGGCCTCCCACATATTCATCCCTGTGTTTCAGCTCCTACC  1633

TCACTGTCAGCACAGCCCTTCATAGCCACGCCCCCTCTTGCTCACCACAGCCTAGGAGGGGACCAGAGGGGACTTCTCT  1712

CAGAGCCCCATGCTCTCTCTCTCAACCCCATACCAGCCTCTGTGCCAGCGACAGTCCTTCCAAATGGAGGGAGTGAAAT  1791

CCTTTGGTTTAATTATTTTCTCCTTCAAGGCACGCCTGCCACTAAGGTCAGGCTGACTTGCATGTCCCTCTAACGTTCG  1870

TAGCAGTGTGGTGGACACTGTCTTCCACCGACTGCTTCAATACCTCTGAAAGCCAGTGCTCGGAGTGCAGTTCGTGTAA  1949

ATTAATTTGCAGGAAGTATACTTGGCTAATTGTAGGGCTAGGATTGTGAATGAAATTTGCAAAGTCGCTTAGCAACAAT  2028

GGAAAGCCTTTCTCAGTCACACCGAGAAGTCACAACCAAGCCAGGTTGTGTAGAGTACAGCTGTGACATACAGACAGAA  2107
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FIG. 8D

GAAGGCTGGGCTGGATGTCAGGCCTCAGATGACGGTTTCAGGTGCCAGGAACTATTACCATTCTGTATCTATCCAGAGT 2186

TATTAAAATTGAAAGTTGCACACATTTGTATAAGCATGCCTTTCTCCTGAGTTTTAAATTATATGTATACACAAACATG 2265

TGGCCCTCAAAGATCATGCACAAACCACTACTCTTTGCTAATTCTTGGACTTTTCTCTTTGATTTTCAATAAATACAAA 2344

TCCCCTTCATGCAAAAAAAAAAAAAAAGGGCGGCCGC 2381

App No.: 09/009,802
Title: Novel CRSP-2 Protein...
Inventors: Sean McCarthy